

METHODS AND APPARATUS FOR PERFORMING
REMOTE ACCESS COMMANDS BETWEEN NODES

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ABSTRACT OF THE DISCLOSURE

A system, methods and apparatus perform remote access commands between
10 nodes and allow preemption of context resources in an architecture such as Infiniband.
The system detects an original request in a request queue for a data access task to access
data from a first node to a second node and issues a first request from a first node to a
second node. The first request requests the data access task be performed between the
first node and the second node. The system receives, at the first node, a first response
15 from the second node that partially completes the data access task. The system issues at
least one subsidiary request from the first node to the second node to further complete the
data access task between the first node and the second node. The subsidiary request(s)
are based on an amount of partial completion of the data access task between the first
node and the second node. The system receives, from the second node in response to the
20 subsidiary request, at least one corresponding subsidiary response that further completes
the data access task between the first node and the second node. Responses are limited in
size to a data allotment, such that a large data access request may be broken into several
smaller subsidiary data access request response sequences, thus allowing preemption of
context resources in between processing of request response pairs.

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